

PATENT COOPERATION TREATY

PCT


INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D 26 APR 2006

WIPAC PCT

Applicant's or agent's file reference TAB/P70652WO00		FOR FURTHER ACTION		See Form PCT/IPEA/416
International application No. PCT/GB2005/000796		International filing date (day/month/year) 04.03.2005	Priority date (day/month/year) 04.03.2004	
International Patent Classification (IPC) or national classification and IPC INV. A63B69/34 A63B69/00				
Applicant MACNAB, Malcolm				
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 5 sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> sent to the applicant and to the International Bureau) a total of 6 sheets, as follows:</p> <p><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>				
<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input checked="" type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>				
Date of submission of the demand 29.11.2005		Date of completion of this report 25.04.2006		
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465		Authorized officer Jekabsons, A Telephone No. +49 89 2399-6096		



**INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY**

International application No.
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Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language , which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the **elements*** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

Description, Pages

1-25 as originally filed

Claims, Numbers

1-41 received on 29.11.2005 with letter of 28.11.2005

Drawings, Sheets

1/13-13/13 as originally filed

- ☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
3. ☒ The amendments have resulted in the cancellation of:
- ☐ the description, pages
 - ☒ the claims, Nos. 41
 - ☐ the drawings, sheets/figs
 - ☐ the sequence listing (*specify*):
 - ☐ any table(s) related to sequence listing (*specify*):
4. ☒ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages
 - ☒ the claims, Nos. 16,21,22,37,38
 - ☐ the drawings, sheets/figs
 - ☐ the sequence listing (*specify*):
 - ☐ any table(s) related to sequence listing (*specify*):

* If item 4 applies, some or all of these sheets may be marked "superseded."

**INTERNATIONAL PRELIMINARY REPORT
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Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:
- ☐ the entire international application,
 - ☒ claims Nos. 41
because:
 - ☐ the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):
 - ☐ the description, claims or drawings (*indicate particular elements below*) or said claims Nos. are so unclear that no meaningful opinion could be formed (*specify*):
 - ☐ the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.
 - ☒ no international search report has been established for the said claims Nos. 41
 - ☐ the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:
 - the written form ☐ has not been furnished
 - ☐ does not comply with the standard
 - the computer readable form ☐ has not been furnished
 - ☐ does not comply with the standard
 - ☐ the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-*bis* of the Administrative Instructions.
 - ☐ See separate sheet for further details

**INTERNATIONAL PRELIMINARY REPORT
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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	1-40
	No: Claims	
Inventive step (IS)	Yes: Claims	1-40
	No: Claims	
Industrial applicability (IA)	Yes: Claims	1-40
	No: Claims	

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item V

**Reasoned statement with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement**

Reference is made to the following documents:

D1: US-A-2004/005963

Document D1, which is considered to represent the most relevant state of the art, discloses a portable martial arts practice dummy having a body (14); a support means (24,26) detachably mounted to the body; the support means (24,26) having a plurality of members which are detachably secured to each other and the body (14) and wherein the body is hollow, for receiving the plurality of detached members for storage from which the subject-matter of claim 1 differs in that the dummy further comprises means for retaining the detached members within the body.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as protecting the parts from damage and enhancing the portability of the dummy.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:
means for retaining the detached members within the body is not an obvious solution to the problem posed.

Claims 2 -40 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

CLAIMS

1. A portable martial arts practise dummy comprising:
a body; and

5 support means, detachably mounted to the body, for detachably securing the body to a floor or a base and supporting the body for use, said support means comprising a plurality of members which are detachably secured to each other, the body and/or the base and wherein the body is
10 hollow for receiving the plurality of detached members for storage, and further comprises means for retaining the detached members within the body.

2. A dummy as claimed in claim 1 further comprising a
15 base.

3. A dummy according to claim 2, wherein the base comprises two or more panels and wherein the base is collapsible.
20

4. A dummy according to claim 3, wherein the panels are connected by one or more hinges.

5. A dummy according to claim 4, wherein the one or more
25 hinges comprise web hinges.

6. A dummy according to any one of claims 3 to 5, comprising a base support for securing the panels together in a plane.
30

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7. A dummy according to claim 6, wherein the base support is a front base support, and further comprising a rear base support.

5 8. A dummy according to any one of claims 2 to 7, wherein the base comprises mounting points for securing the support to the base.

9. A dummy according to any one of the preceding claims
10 wherein the support means comprises a frame horizontal, wherein the body comprises frame horizontal apertures for the frame horizontal, and wherein the body is detachably mounted to the frame horizontal by virtue of the frame horizontal passing through the frame horizontal apertures.

15

10. A dummy according to claim 9, wherein the frame horizontal comprises a pair of frame horizontal members.

11. A dummy according to claim 10,
20 wherein the support means comprises a joiner received within the body,

wherein the pair of frame horizontal members are detachably connected by the joiner, and

wherein the joiner has a dimension preventing it from
25 escaping the body through the frame horizontal apertures, so that when the frame horizontal members are connected by the joiner, the joiner is captively received within the body, thus restricting movement of the body relative to the frame horizontal members.

30

12. A dummy according to claim 11,
wherein the joiner has first and second ends, and

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wherein the joiner is dimensioned so that when the frame horizontal members are connected by the joiner, the first and second ends of the joiner are substantially in contact with the body, thus substantially preventing
5 movement of the body relative to the frame horizontal members.

13. A dummy according to any one of claims 1 to 12, wherein the support means comprises a frame.

10

14. A dummy according to claim 13, wherein the frame comprises a pair of frame uprights upstanding from the base.

15. A dummy according to claim 14, wherein the frame
15 comprises:

a pair of rear triangulation supports bracing the frame uprights to the base in a first plane;

a pair of lateral triangulation supports bracing the frame uprights to the base in a second plane; and

20 a pair of frame horizontals connecting the body to the frame uprights.

16. A dummy according to any one of claims 1 to 15, comprising at least one limb projecting from the body.

25

17. A dummy according to claim 16, wherein the limb is detachably mounted to the body.

18. A dummy according to claim 16 or 17, wherein the limb
30 comprises a generally cylindrical shank having first and second ends.

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19. A dummy according to claim 18, wherein the limb is frustoconical towards the first end, and wherein the limb narrows towards the first end.

5 20. A dummy according to claim 18 or 19, wherein the shank is cylindrical.

21. A dummy according to any one of claims 17 to 20 wherein the body comprises an aperture in the body for receiving the
10 second end of the limb and means for mounting the second end of the limb internally within the body.

22. A dummy according to claim 21, wherein the recess is dimensioned so that the aperture supports the limb when it
15 is mounted to the body.

23. A dummy as claimed in any one of claims 16 to 22 in which the limb comprises a first and a second section said sections being detachably joined at an angle to each other.
20

24. A dummy according to any preceding claim, wherein the body comprises a tubular portion.

25. A dummy according to claim 24, wherein substantially the
25 entire body is tubular.

26. A dummy according to any one of claims 18 to 25 wherein a first aperture and a second aperture are defined in the body for mounting the limb,
30 wherein the first aperture has a diameter substantially equal to the diameter of the shank, and

- 30 -

wherein the second aperture has a diameter substantially equal to the diameter of the second end.

27. A dummy according to claim 26, wherein the first and
5 second apertures are diametrically opposite each other.

28. A dummy according to claim 26 or 27, wherein the second
end of the limb has a diameter smaller than the diameter of
the shank.

10

29. A dummy according to claim 28, wherein the second end of
the limb is generally rectangular, and wherein the second
aperture is generally rectangular.

15 30. A dummy according to claim 28 or 29 wherein the second
end of the limb comprises a recess for detachably receiving
a dowel so that when the dowel is engaged in the recess then
the body is captively held between the shank and the dowel.

20 31. A dummy according to claim 30, wherein the recess
comprises an aperture.

32. A dummy according to claim 29 or 30, wherein the
arrangement of the recess, second end and shank is such that
25 when the dowel is engaged in the recess then relative motion
between the limb and the body is limited.

33. A dummy according to any one of claims 16 to 22 or
according to any one of claims 26 to 32, wherein the dummy
30 comprises a leg, a mid arm, and two upper arms.

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34. A dummy according to any one of the preceding claims in which the retaining means comprise one or more support members located in the hollow body,

5 wherein at least one of (i) one or more recesses and (ii) one or more apertures are provided in each of the one or more support members, wherein the recesses and apertures enable items to be retained inside the body.

35. A dummy according to claim 34, wherein the one or more
10 support members comprise foam rubber / plastic.

36. A dummy according to claim 34 or 35, comprising a base support member, a mid support member, and a top support member.

15

37. A dummy according to any one of the preceding claims, in which the retaining means further comprise an end cap detachably mounted to close of the hollow portion.

20 38 A dummy according to claim 37 wherein the end cap has means for securing it to the hollow portion.

39. A dummy according to any preceding claim, comprising a leather punch pad.

25

40. A non-portable martial arts practise dummy comprising a body in combination with the features recited by any one of claims 2 to 39.

30 41. A practice dummy as hereinbefore described and/or with reference to the accompanying Figures.

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